

PRODUCT DATA SHEET

SikaTop[®]-107 Seal AE

Waterproofing and Damp-proofing Cementitious Slurry

DESCRIPTION

SikaTop[®]-107 Seal AE is a 2-part polymer modified cementitious waterproof mortar slurry comprising of a liquid polymer and cement based mix incorporating special admixtures.

Formerly known as SikaTop[®] Seal-107.

Suitable for use in hot and tropical climatic conditions.

USES

SikaTop[®]-107 Seal AE is used for:-

- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Concrete surface protection, to improve the durability
- Rigid waterproofing of wet areas/basement walls in new construction and refurbishment
- Pore / blowhole filling

- Waterproofing and protection of hydraulic structures such as: basins, tanks, concret piping, bridges, canals
- Sealing fine "hairline" cracks in concrete structures (not subject to movement)
- Waterproofing of terraces, balconies and wet areas underneath protection screed and tiles

CHARACTERISTICS / ADVANTAGES

- Easy to apply by brush or in thin trowel applications
- No water required
- Pre-batched components
- Hand or spray applied
- Easy and fast mixing
- Very good adhesion
- Protects concrete against carbonation
- Protects against water penetration
- Over-paintable

PRODUCT INFORMATION

Product declaration	Part A: Liquid polymer and additives Part B: Portland cement, selected graded aggregates and admixtures
Composition	Component A: Liquid Component B: Powder
Packaging	22.5 kg set (4.5 kg pail Part A + 18 kg bag Part B)
Shelf life	Minimum 6 months from date of production if stored properly in undamaged and original sealed packaging.
Storage conditions	Store in original unopened packaging in cool and dry conditions between +5 °C and +35 °C. Protect from direct sunlight and frost.
Appearance and colour	Part A: White Liquid Part B: Grey or White Powder Mixed product: Cement Grey or Off White
Density	~ 2.00 kg/l (fresh mortar at +25 °C)

TECHNICAL INFORMATION

Compressive strength	~ 40 N/mm ² (28 days curing, +23 °C, 50% r.h.) Testing carried out at mortar consistency	(ASTM C109)
Tensile strength in flexure	~ 9 N/mm ² (28 days curing, +23 °C, 50% r.h.) Testing carried out at mortar consistency	(ASTM C348)
Tensile adhesion strength	~ 1 N/mm ²	(ASTM D 4541)
Watertightness	No penetration	

APPLICATION INFORMATION

Mixing ratio	A : B = 1 : 4 by weight						
Consumption	~ 2.0 kg/m ² /mm This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc..						
Yield	1 set of 22.5 kg yields ~ 11.25 l of mortar.						
Layer thickness	min. 0.75 mm per coat max. 1.5 mm per coat Note: Minimum 2 coats (layers) application for waterproofing or damp proofing application In areas of severe water penetration, 3 coats might be required						
Ambient air temperature	+8 °C min. / +35 °C max.						
Substrate temperature	+8 °C min. / +35 °C max.						
Pot Life	~30 minutes at +20 °C						
Waiting time to overcoating	Waiting time between coats: <table border="1" style="width: 100%;"> <tr> <td>+10 °C</td> <td>~12 hours</td> </tr> <tr> <td>+20 °C</td> <td>~6 hours</td> </tr> <tr> <td>+30 °C</td> <td>~3 hours</td> </tr> </table> <p>If waiting time period exceeds 24 hours, lightly blast clean the surface.</p>	+10 °C	~12 hours	+20 °C	~6 hours	+30 °C	~3 hours
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+20 °C	~6 hours						
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BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- SikaTop®-107 Seal AE is not a decorative treatment and may display signs of “blooming” after rain or in damp weather. This does not affect the performance of the coating, in any way.
- Where SikaTop®-107 Seal AE will be visible after completion of the works then the off-white colour, which is more aesthetically pleasing, should be used.
- Avoid application in direct sun and/or strong wind.
- Do not add water in any circumstances.
- Apply only to sound, prepared substrates.
- Do not exceed maximum layer thickness.
- For waterproofing or damp proofing application, always use at least 2 coats to give a total thickness of between 1.5 to 2.0 mm. In areas of severe water penetration, three coats might be required. Contact Sika Technical Service Department for advice.
- Protect freshly applied material from freezing conditions and rain etc.
- SikaTop®-107 Seal AE does not provide a trafficable finish. Protection layer needs to be applied.
- When tiling direct on SikaTop®-107 Seal AE, recommended tile adhesive should be minimum class C2, according to EN 12004. Adhesion trials are recommended.
- For waterproofing / damp-proofing works, special attention is required to avoid puncturing the waterproof coating with fixings.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The cement based substrate "pull-off strength" (tensile adhesion strength) must be $\sim 1.0 \text{ N/mm}^2$ or higher.

SUBSTRATE PREPARATION

- Substrates must be properly cured, structurally sound, free of any loose or friable particles, cement laitance, clean, dry and free of any contaminants such as dust, dirt, oil, grease, cement laitance or efflorescence.
- Depending on the substrate condition and contaminants to be removed from the surface, perform adequate preparation techniques, such as water-jet-washing or blastcleaning, in order to remove all traces of any materials that could reduce the product's adhesion to the substrate.
- Any small surface defects and variations in level, profile, or around exposed aggregates for example, can be prefilled and levelled with an additional layer SikaTop®-107 Seal AE. For larger and thicker areas of surface reprofiling and making good, appropriate mortars from the SikaRep®, Sika MonoTop® or Sika-floor® Level range should be used. Cracks in substrates must be identified and sealed appropriately e.g. with Sikadur® epoxy resins.
- For applications in hot climates / environments and / or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch and not with a dark-matt / wet surface appearance i.e. it must be saturated surface dry (SSD).

MIXING

SikaTop®-107 Seal AE must be mechanically mixed using a forced action mixer, in a clean drum, or using a drill and paddle (max. 500 rpm). A normal concrete free fall mixer is NOT suitable.

Stir Part A (liquid) thoroughly before pouring approximately half into a clean mixing container.

Add Part B (powder) slowly while mixing continuously. Add the remaining portion of Part A and continue mixing, until a uniform, lump free consistency is achieved (~ 3 minutes).

APPLICATION METHOD / TOOLS

As a slurry:

Apply 1st coat of mixed SikaTop®-107 Seal AE either mechanically, by spray, or by hand using a stiff brush. Apply in the same direction.

Apply 2nd coat of SikaTop®-107 Seal AE in crosswise direction to the first coat application, as soon as first coat has hardened.

As a mortar:

When SikaTop®-107 Seal AE is applied by trowel (e.g. for a smooth surface finish), the product must be mixed with a 10% reduction of Part A.

Apply 2 coats in crosswise direction. Apply 2nd coat of SikaTop®-107 Seal AE as soon as the first coat has hardened.

As pore / blowhole filler:

Tightly trowel into the pores / blowholes of the surface.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean water immediately after use.

Hardened / cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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ISO 9001, 14001, 45001 –
Lloyd's Register
Sika S.A.C. LLC,
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ISO 9001, 14001, 45001 – SGS
Sika Gulf S.S.C. O.
ISO 9001, 14001 – SGS,
Sika Saudi Arabia Limited

All products are supplied under
a management system certified
to conform to the requirements
of the quality, environmental
and occupational health &
safety standards ISO 9001, ISO
14001 and ISO 45001.



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